Docket No.: Title: Inventors: 2825.1018-010

"Methods for Classifying ..."

Todd R. Golub, et al.

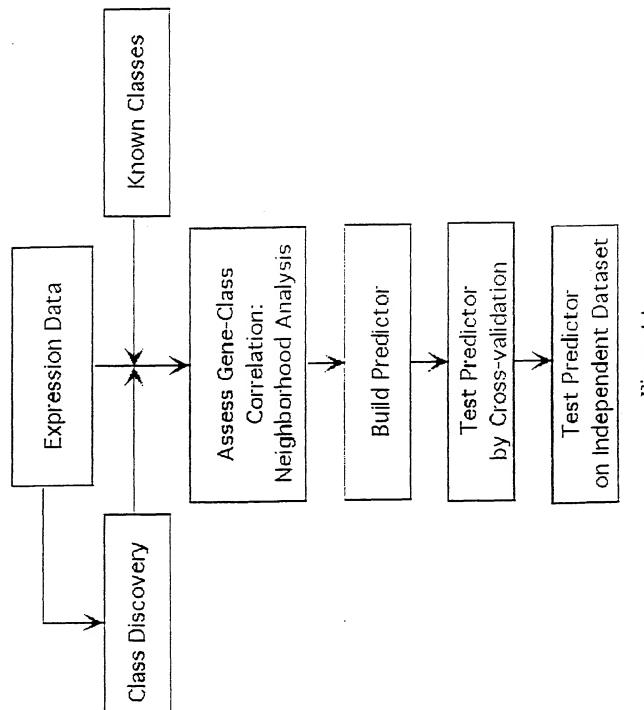
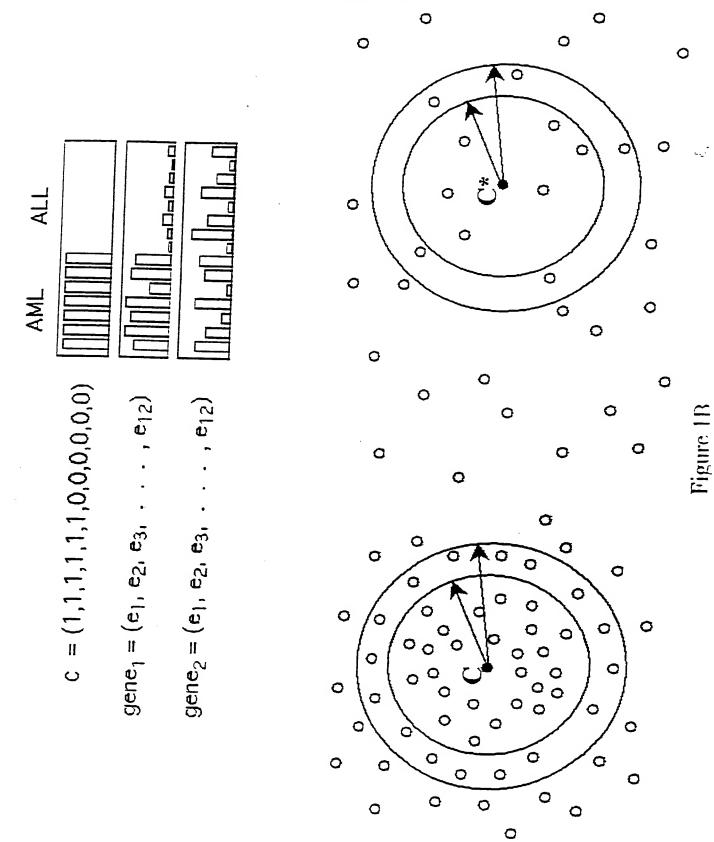


Figure 1A

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Inventors:

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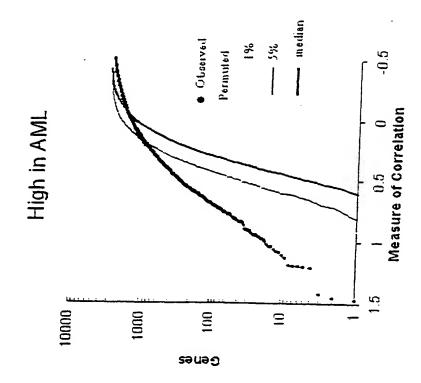
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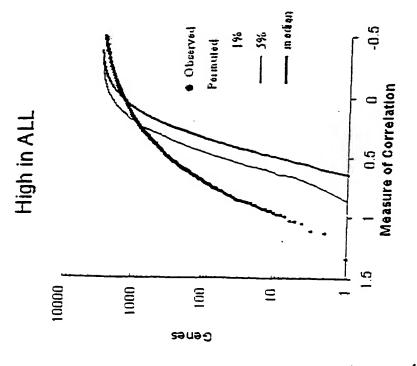
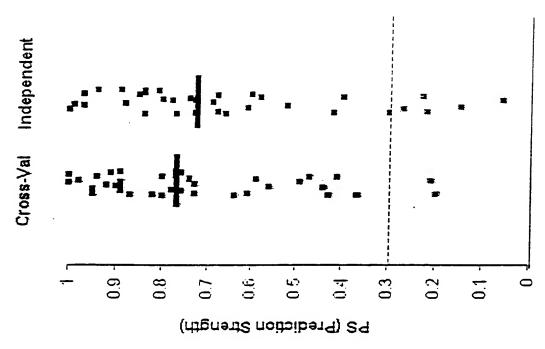


Figure 2

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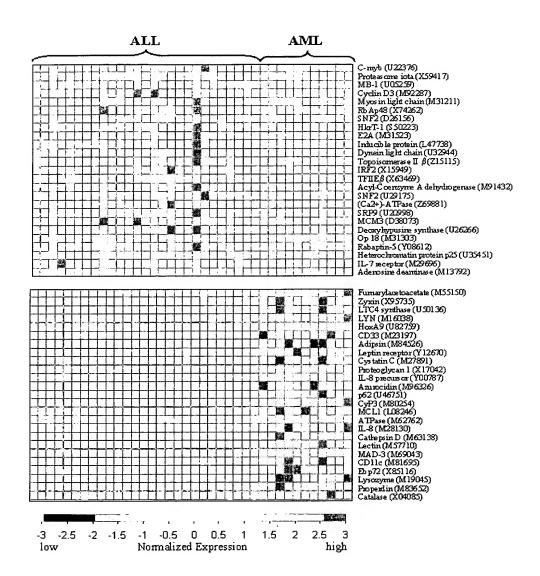
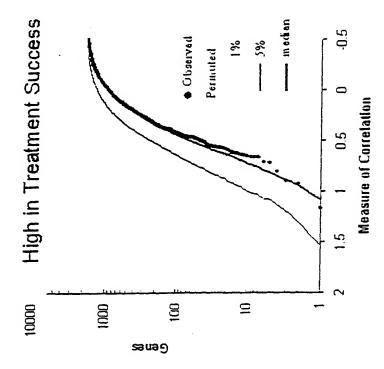
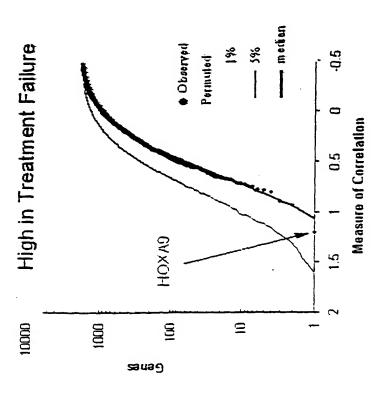


FIG. 3B

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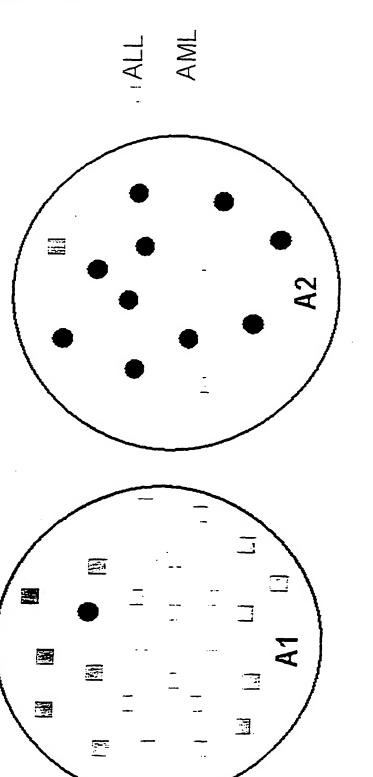
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Pigure 4

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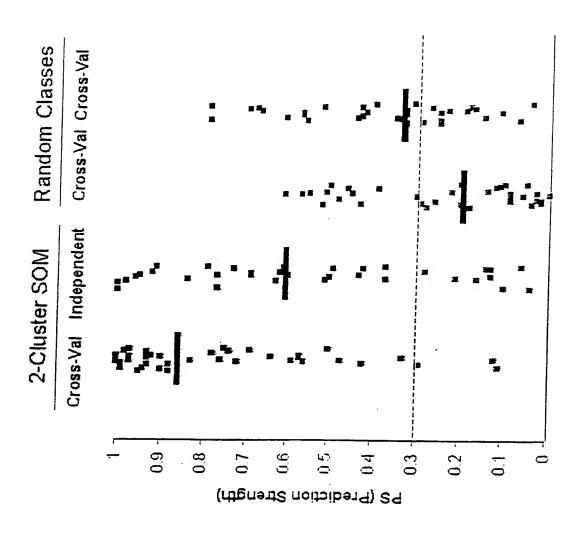
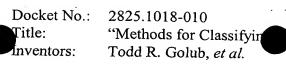


Figure 5B



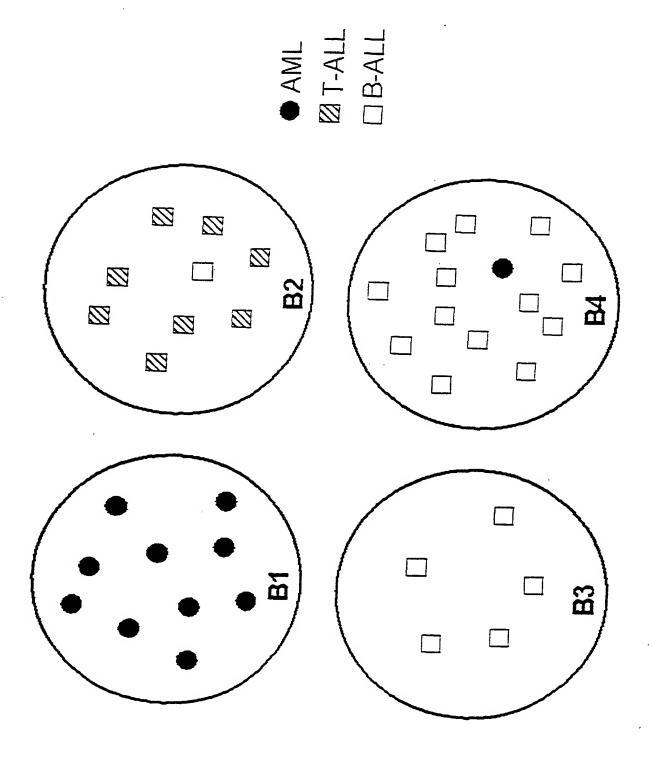


Figure 50

ocket No.: Itle: Inventors: 2825.1018-010

"Methods for Classifying

Todd R. Golub, et al.

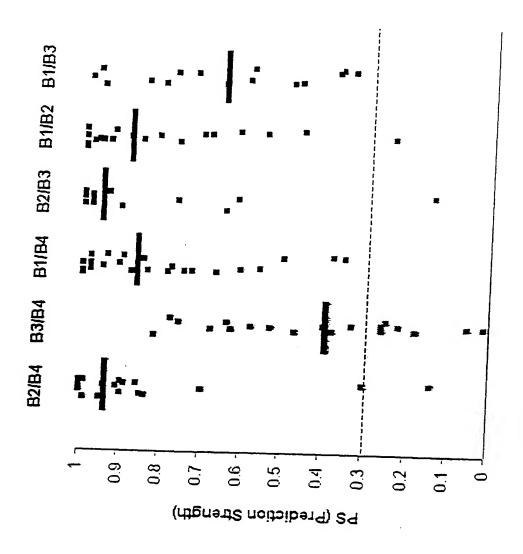


Figure 50

Deket No.: 2825.1018-010

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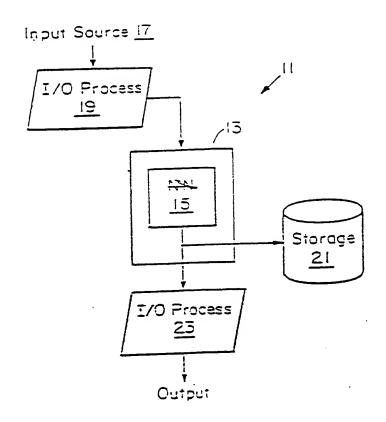


Figure 6

2825.1018-010

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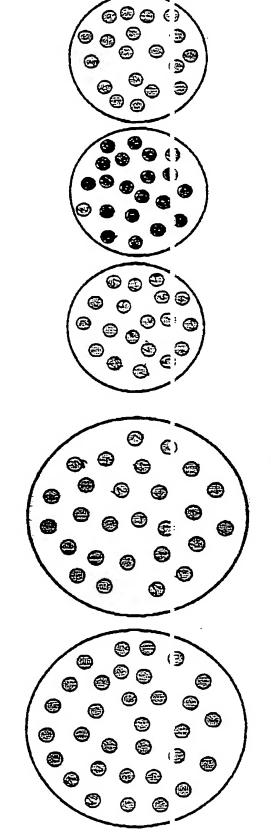
Todd R. Golub, et al.

Example of Self-Organizing Map Class Discovery: Lymphoma Large B-Cell and Follicular

Sample collection;

39 large B-Cell + 20 Follicular

Discovered Classes:



🌒 🕲 Large B-Cell

Follicular

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Inventors:

2825.1018-010

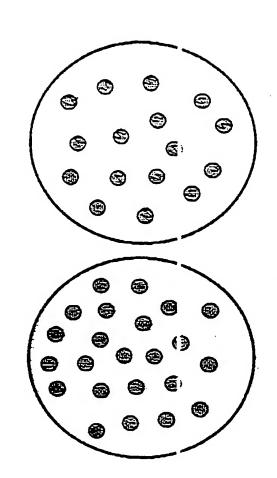
"Methods for Classifying Todd R. Golub, et al.

Example of Self-Organizing Map Class Discovery: Brain Glioma and Medulloblastoma

Sample collection:

24 Medulloblastomas + 15 Gliomas

Discovered Classes;



Medulloblastoma

Glioma Glioma

Fig. 8

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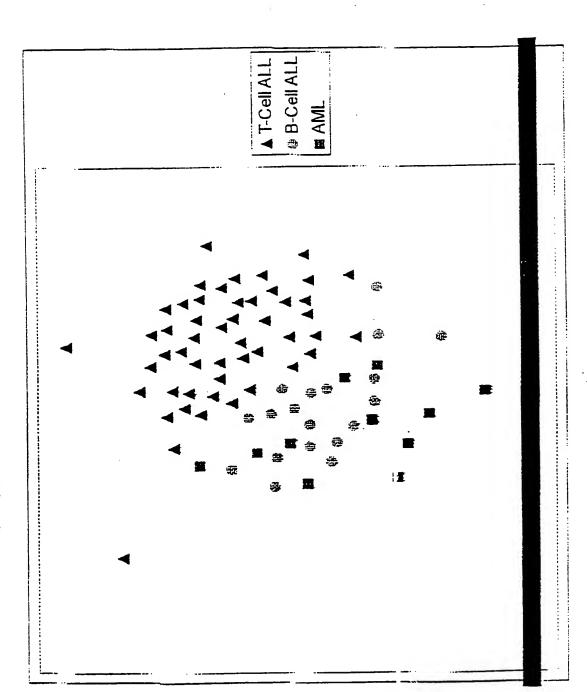
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2825.1018-010 "Methods for Classifying Todd R. Golub, *et al*.

Multidimensional Scaling of Leukemia Samples

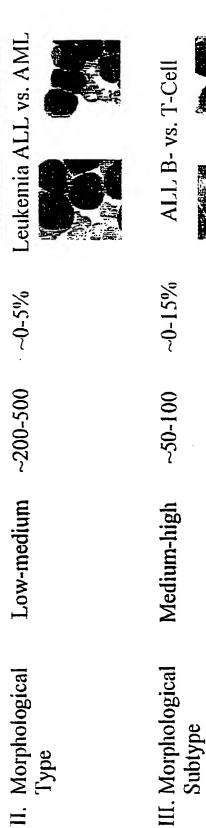
(431 genes, 15-fold, delta > 1500, thres=100, ceil=16,000)

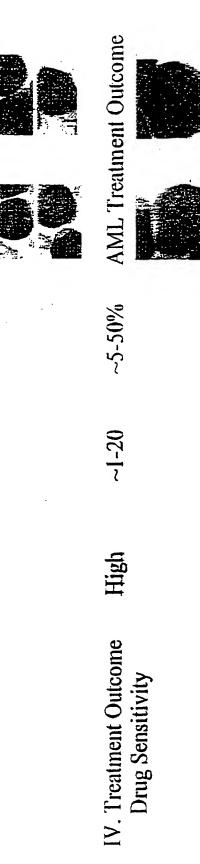


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Hierarchy of Problems in Molecular Class Prediction Problem: Difficulty: Gene Markers: Error: Example:	Example:	Normal vs. Renal Carcinoma	Leukemia ALL vs. AML
	Error:	%0~	~0-5%
	ene Markers:	~1000-2000	~200-200
	••	Low	Low-medium
		. Tissue or Cell Type Normal vs. Abnormal	l. Morphological Type





Neighborhood Analysis: Assessing Statistical Significance of Gene-Class Correlations

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